Document Classified

FIG. 1

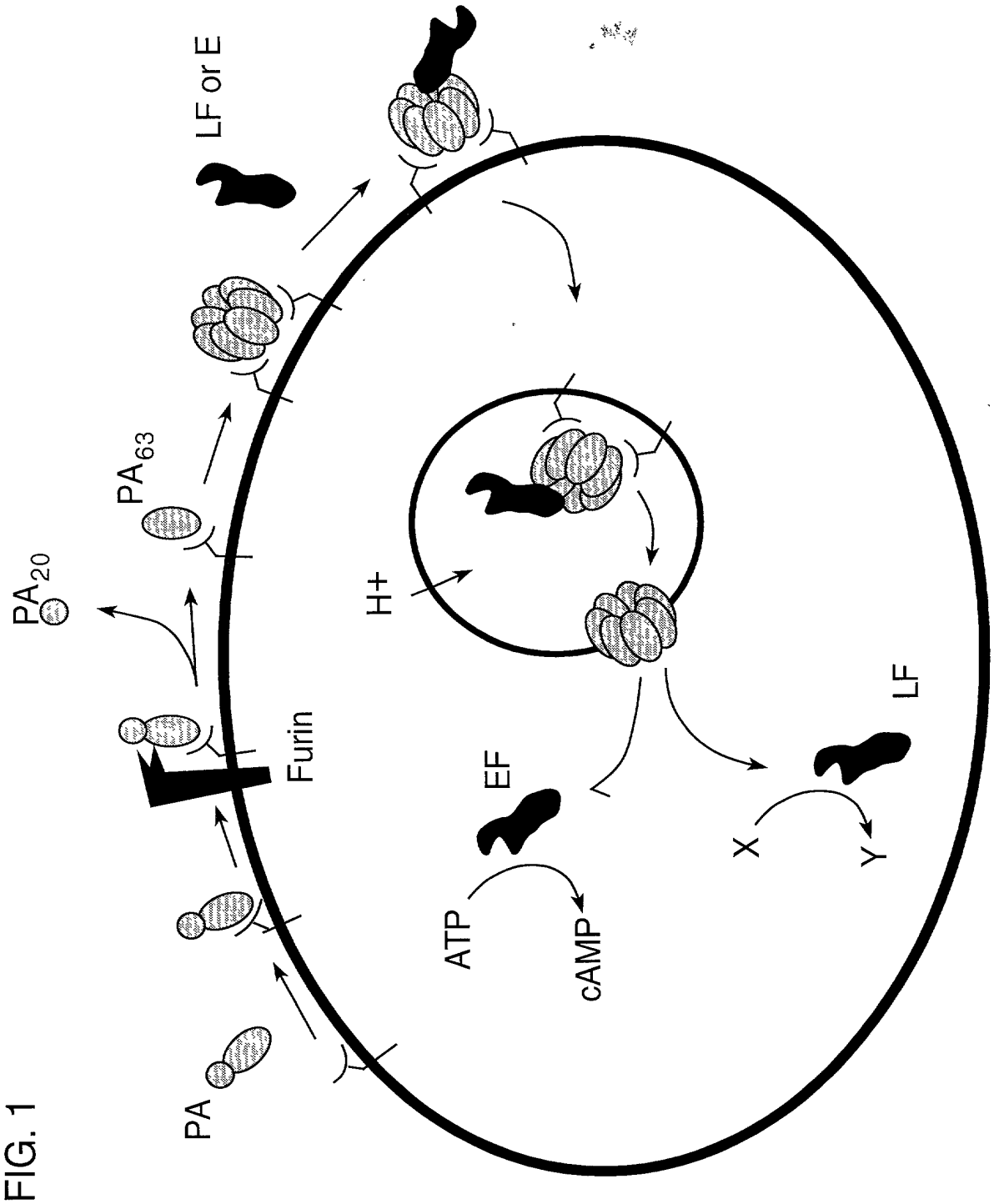

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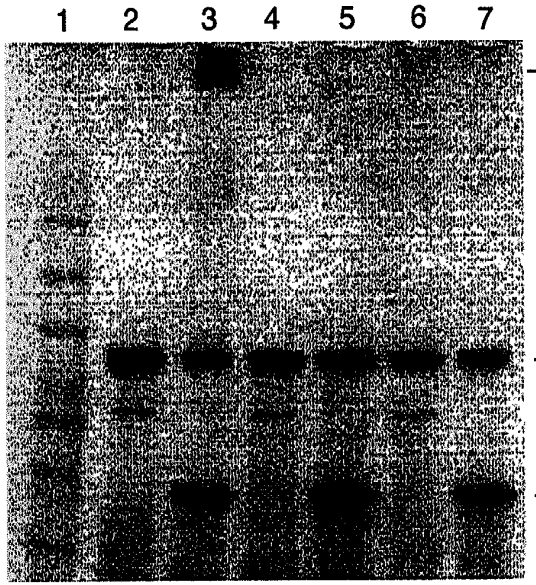
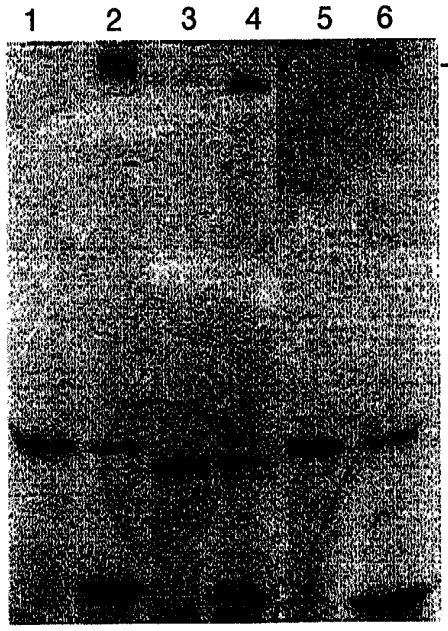
FIG. 2A



1 - MWM
2 - WT nPA
3 - WT nPA pH 5.0
4 - K397A nPA
5 - K397A nPA pH 5.0
6 - D425A nPA
7 - D425A nPA pH 5.0



1 - WT nPA
2 - WT nPA pH 5.0
3 - ΔD2L2 nPA
4 - ΔD2L2 nPA pH 5.0
5 - K397Q nPA
6 - K397Q nPA pH 5.0

Facsimile Embodied

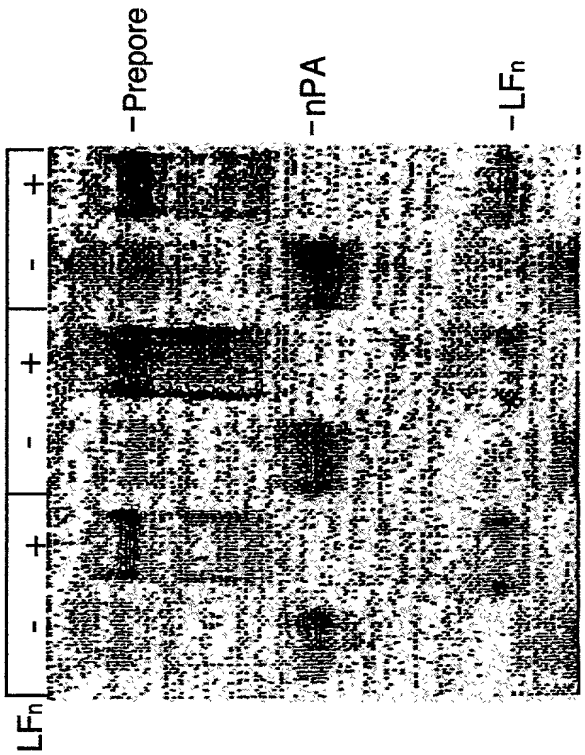


FIG. 2B

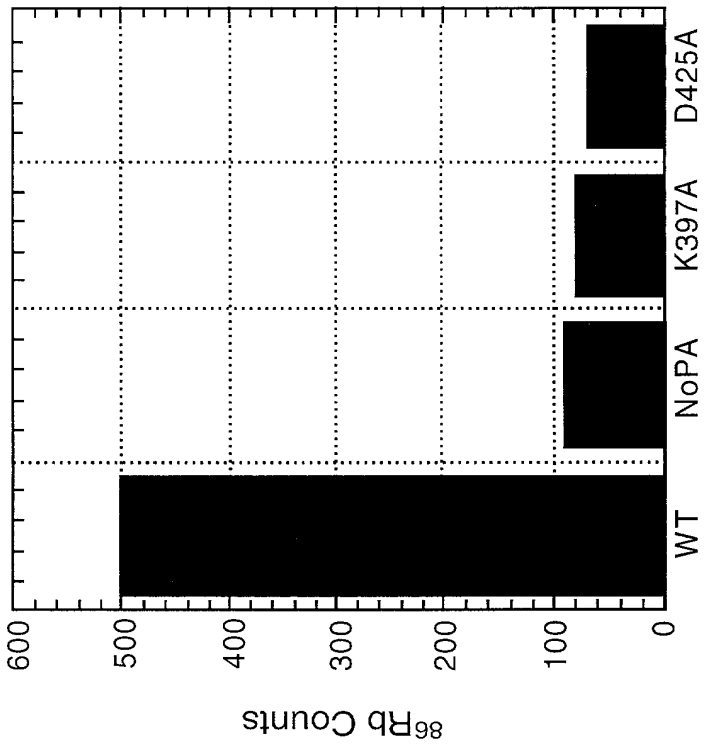


FIG. 3

FIG. 4

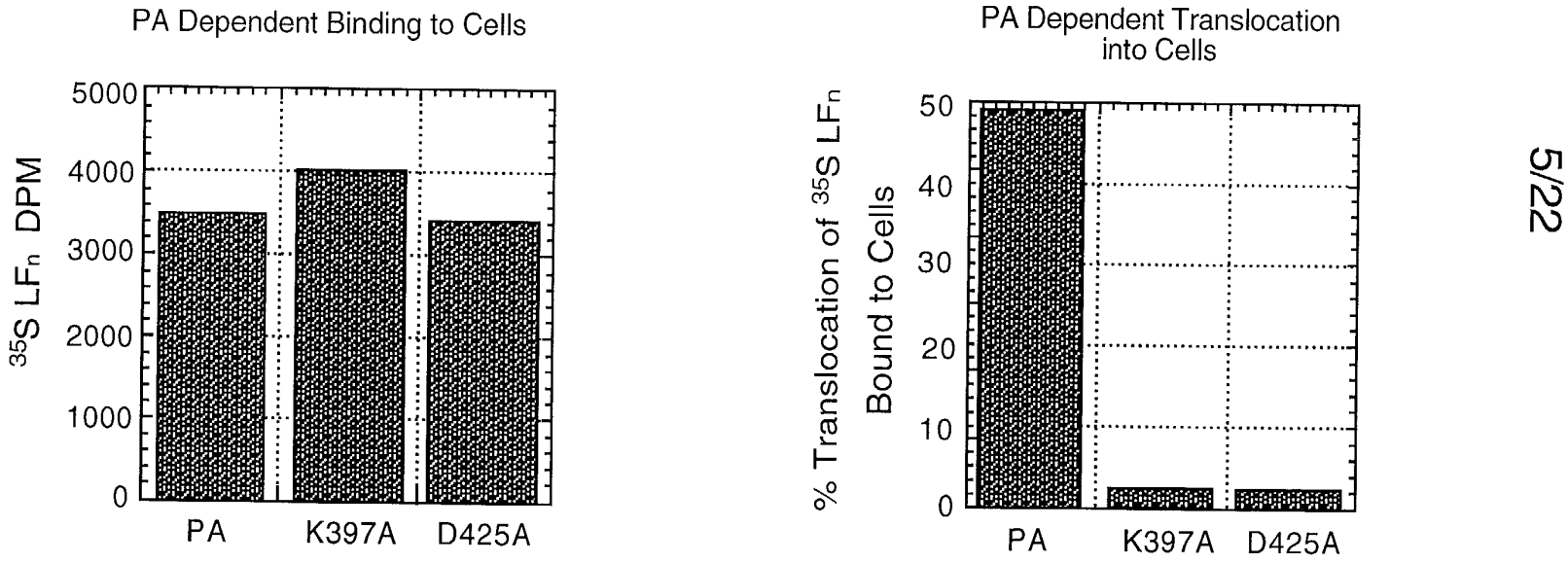

PA Dependent Binding to Cells
^{35}S LF$_n$ DPM
5000
4000
3000
2000
1000
0
PA
K397A
D425A
PA Dependent Translocation into Cells
% Translocation of ^{35}S LF$_n$ Bound to Cells
50
40
30
20
10
0
PA
K397A
D425A

FIG. 5

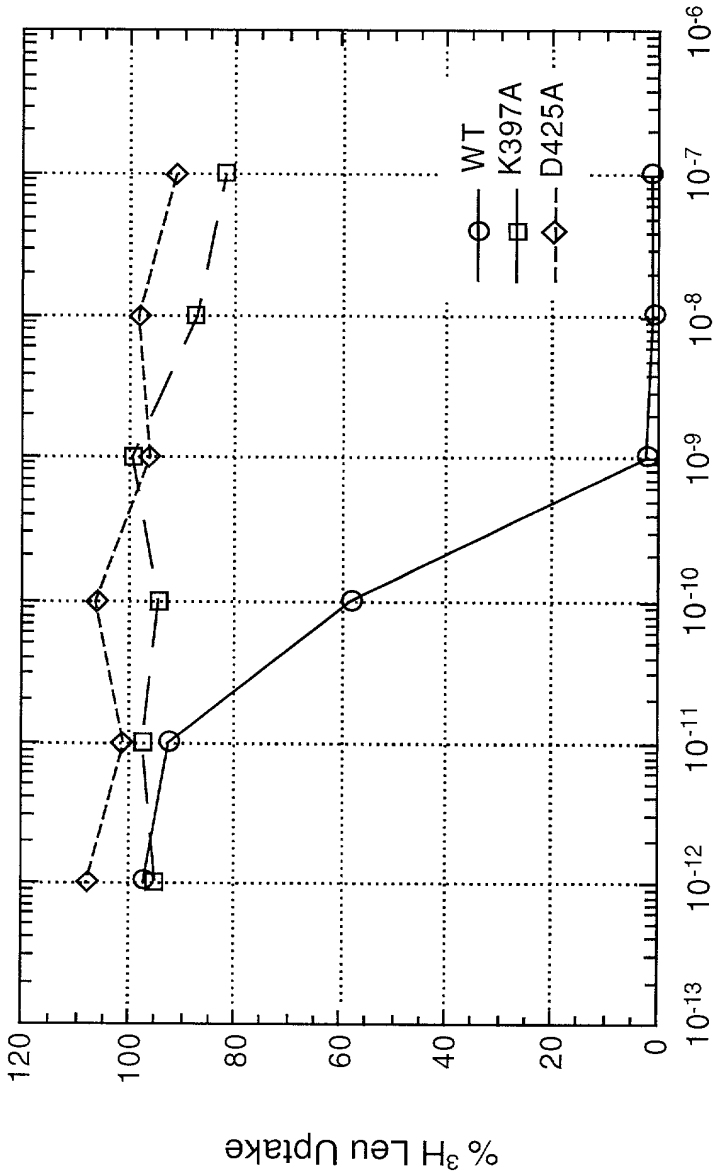
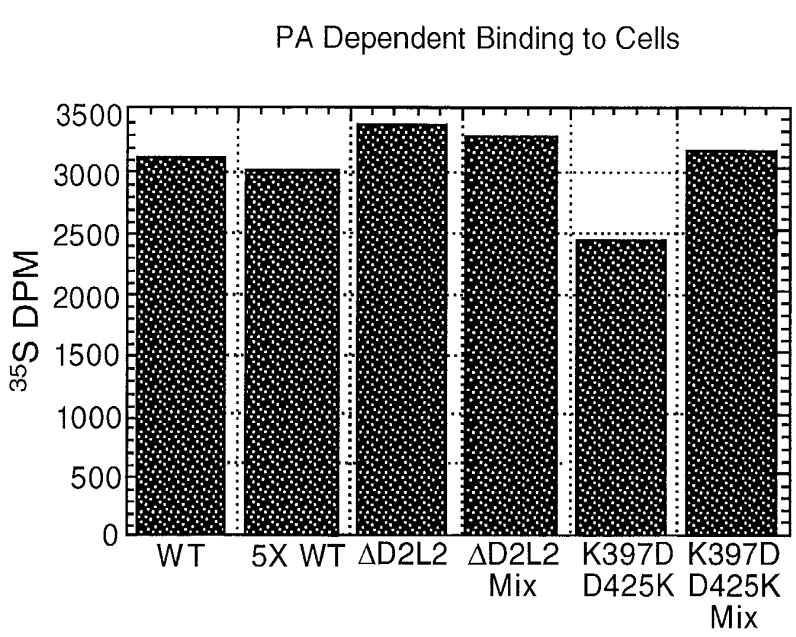
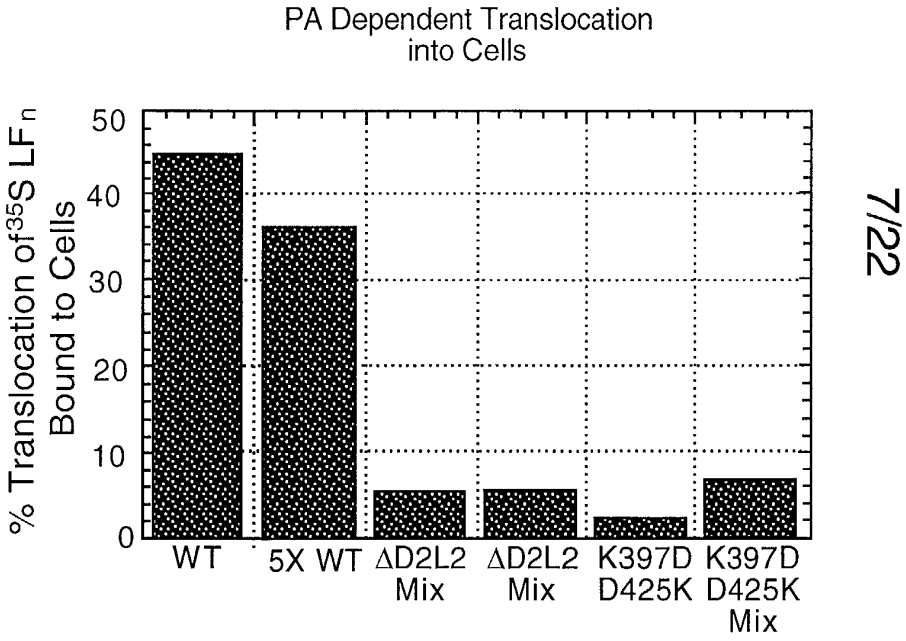

% 3H Leu Uptake
120
100
80
60
40
20
0
10-13
10-12
10-11
10-10
10-9
10-8
10-7
10-6
[PA] (M)
WT
K397A
D425A

FIG. 6


PA Dependent Binding to Cells
^{35}S DPM
3500
3000
2500
2000
1500
1000
500
0
WT
5X WT
ΔD2L2
ΔD2L2 Mix
K397D D425K
K397D D425K Mix


PA Dependent Translocation into Cells
% Translocation of ^{35}S LF$_n$ Bound to Cells
50
40
30
20
10
0
WT
5X WT
ΔD2L2 Mix
ΔD2L2 Mix
K397D D425K
K397D D425K Mix

Replacement Sheet

FIG. 7

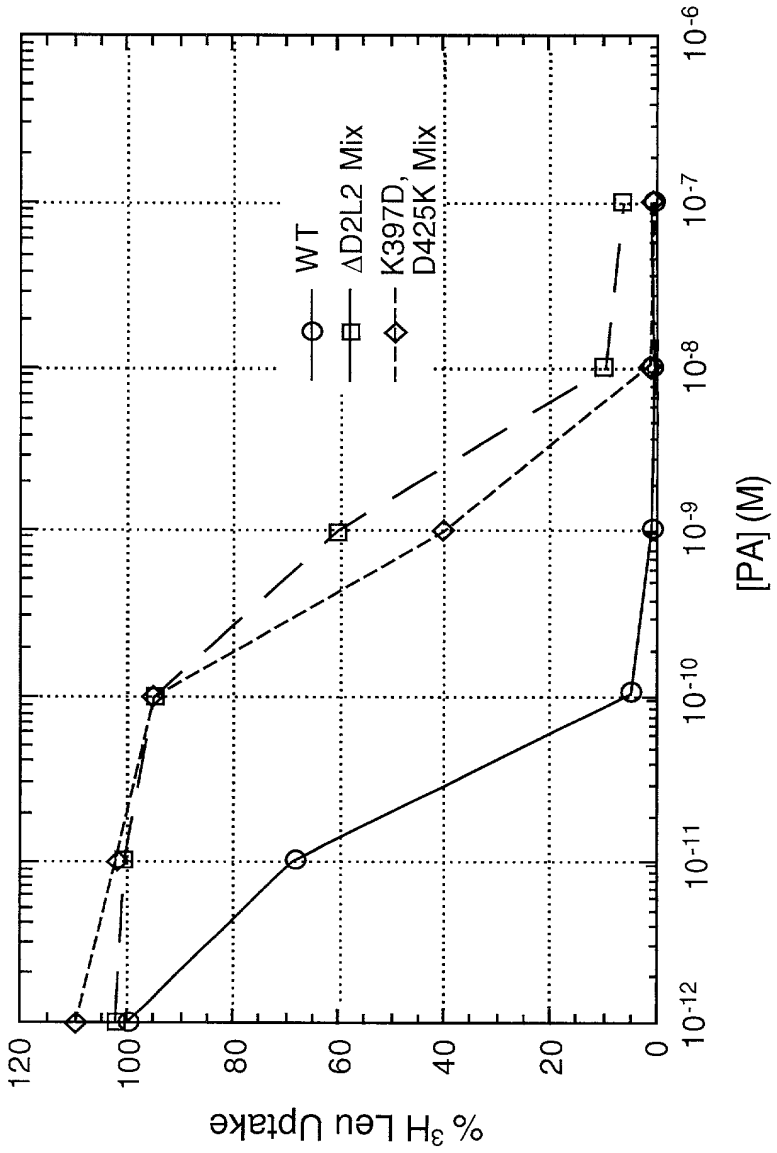


FIG. 8A

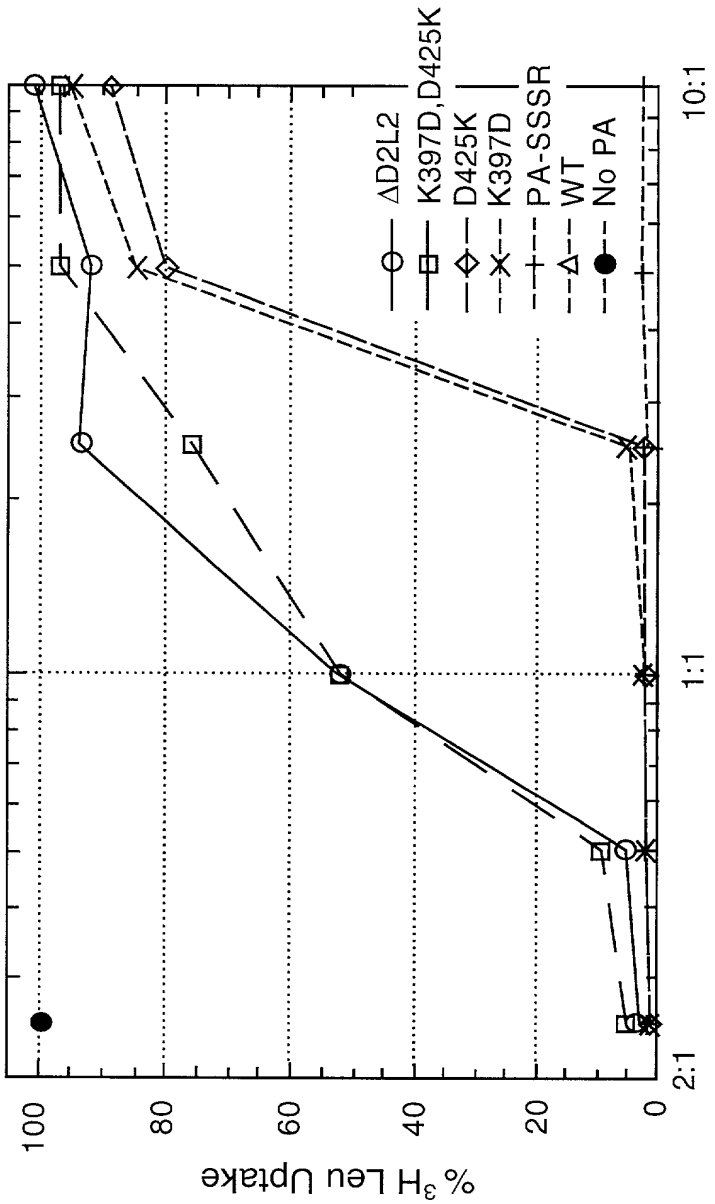
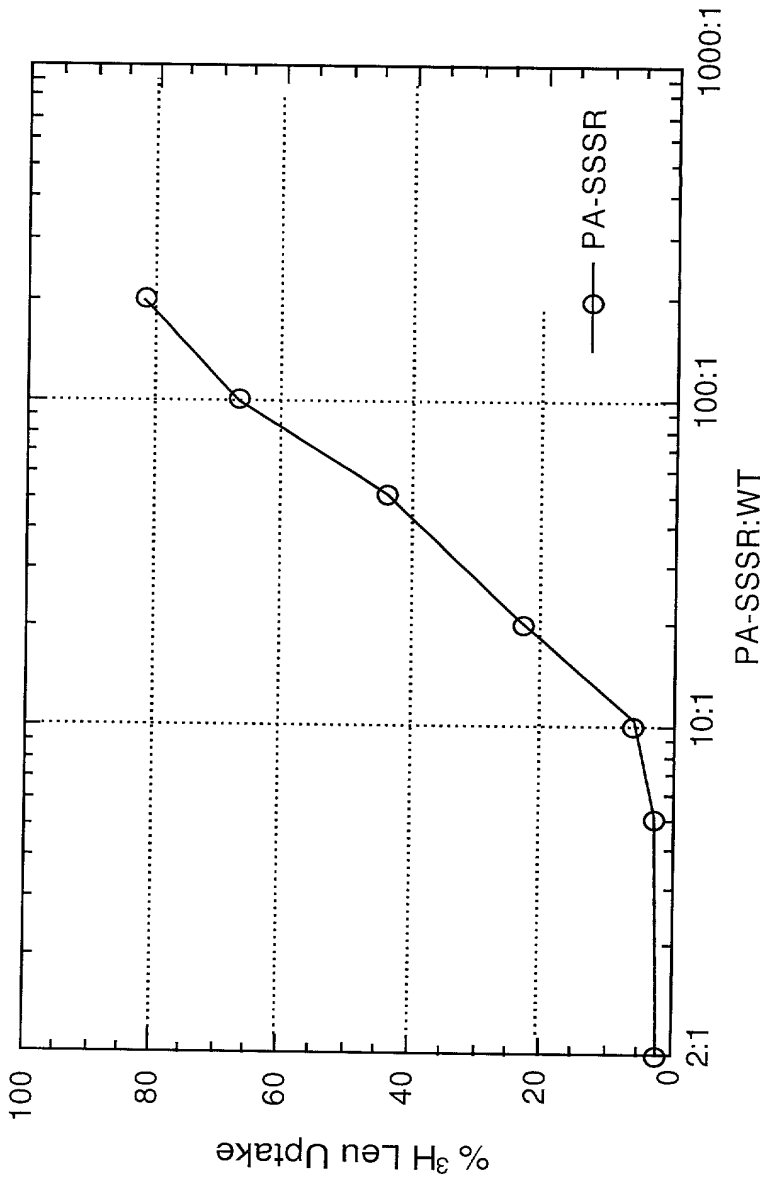

% ³H Leu Uptake
100
80
60
40
20
0
2:1
1:1
10:1
Mut:WT Ratio
ΔD2L2
K397D,D425K
D425K
K397D
PA-SSSR
WT
No PA

FIG. 8B


% ³H Leu Uptake
100
80
60
40
20
0
2:1
10:1
100:1
1000:1
PA-SSSR:WT
PA-SSSR

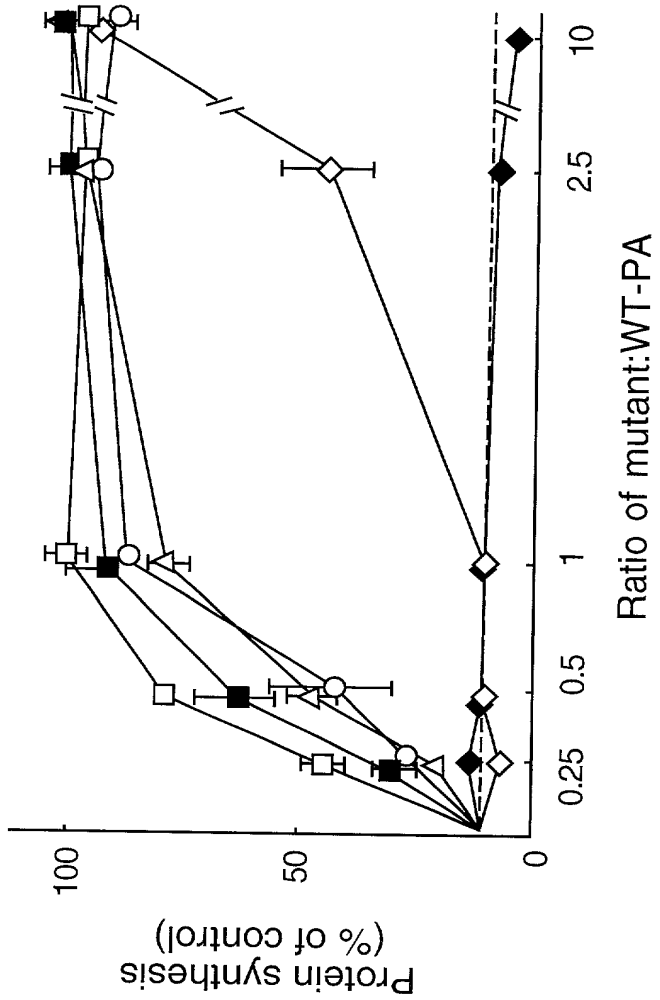

Protein synthesis
(% of control)
100
50
0
0.25
0.5
1
2.5
10
Ratio of mutant:WT-PA

FIG. 9

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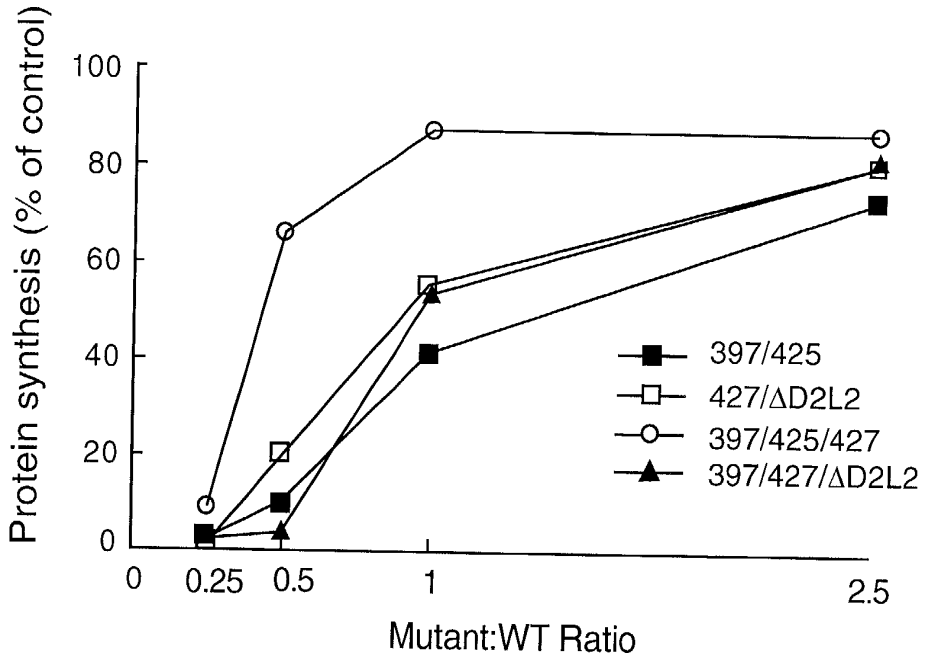
FIG. 10



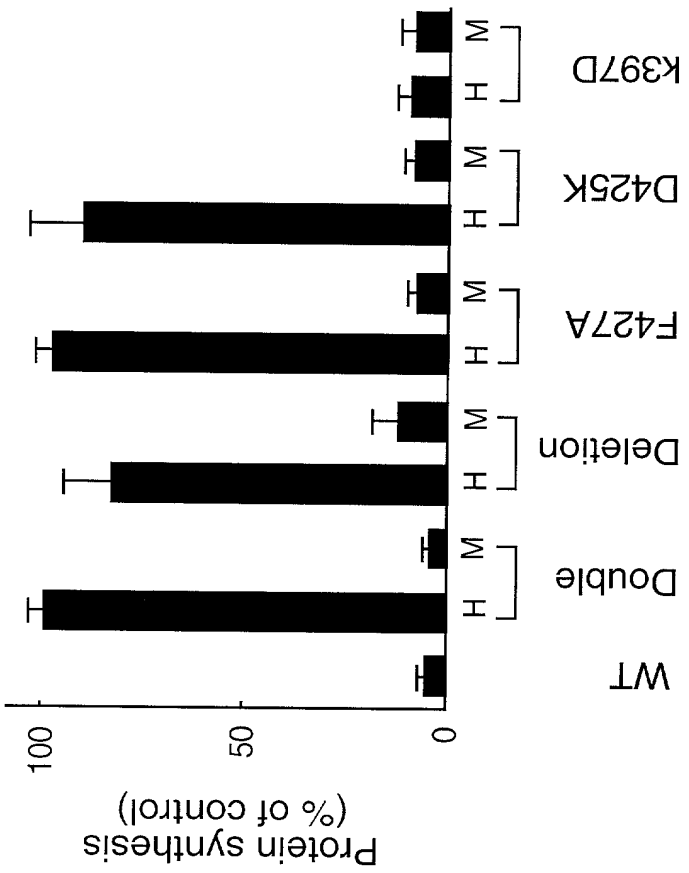

Protein synthesis
(% of control)
0
50
100
WT
Double
Deletion
F427A
D425K
K397D
H
M

FIG. 11

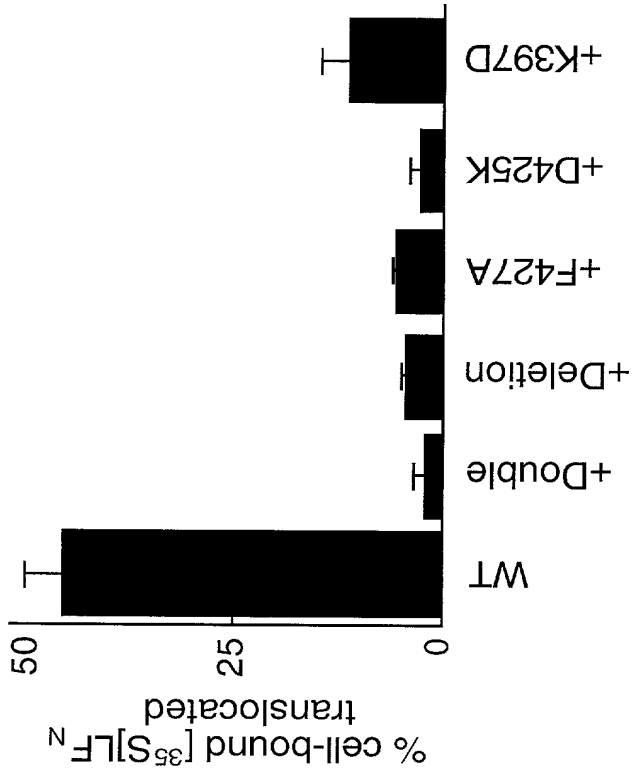

% cell-bound [35S]LFN translocated
50
25
0
WT
+Double
+Deletion
+F427A
+D425K
+K397D

FIG. 12

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FIG. 13

Figure 13: SEQ ID No.: 21

EVKQENRLLNESESSSQGLLGYYFSDLNFQAPMVVTSSTTGDLSIPSSELENIPSEN
QYFQSAIWSGFIKVKKSDEYTFA
TSADNHVTMWVDDQEVINKASNSNKIRLEKGRLYQIKIQYQRENPTEKGLDFKL
YWTDSQNKKEVISSDNLQLPELKQKS
SNSRKKRSTSAGPTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIHEKKG
LTKYKSSPEKWSTASDPYSDFEKVT
GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSTS
RTHTSEVHGNAEVHASFFDIGGSV
SAGFSNSNSSTVAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIY
NVLPTTSLVLGKNQTLATIKAKENQ
LSQILAPNNYYPSKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLDTDQV
YGNIATYNFENGRVRVDTGSNWSEV
LPQIQETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPN
GNLQYQGKDITEFDFNFDQQTSQ
NIKNQLAELNATNIYTVLDKIKLNAKMNILIRDKRFHYDRNNIAVGADESVVKEA
HREVINSSTEGLLLNIDKDIRKILS
GYIVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLPLYISNPNYKV
NVYAVTKENTIINPSENGDTSTNG
IKKILIFSKKGYEIGZ

FIG. 14

Figure 14: SEQ ID No.: 22

GAAGTTAAACAGGAGAACCGGTTATTAAATGAATCAGAATCAAGTTCCCAGG
GGTTACTAGGATACTATTTTAGTGATTT
GAATTTTCAAGCACCCATGGTGGTTACCTCTTCTACTACAGGGGATTTATCTA
TTCCTAGTTCTGAGTTAGAAAATATTC
CATCGGAAAACCAATATTTTCAATCTGCTATTTGGTCAGGATTTATCAAAGTT
AAGAAGAGTGATGAATATACATTTGCT
ACTTCCGCTGATAATCATGTAACAATGTGGGTAGATGACCAAGAAGTGATTA
ATAAAGCTTCTAATTCTAACAAAATCAG
ATTAGAAAAAGGAAGATTATATCAAATAAAAATTCAATATCAACGAGAAAAT
CCTACTGAAAAAGGATTGGATTTCAAGT
TGTACTGGACCGATTCTCAAAATAAAAAAGAAGTGATTTCTAGTGATAACTT
ACAATTGCCAGAATTAAAACAAAAATCT
TCGAACTCAAGAAAAAAGCGAAGTACAAGTGCTGGACCTACGGTTCCAGACC
GTGACAATGATGGAATCCCTGATTCATT
AGAGGTAGAAGGATATACGGTTGATGTCAAAAATAAAAGAACTTTTCTTTCA
CCATGGATTTCTAATATTCATGAAAAGA
AAGGATTAACCAAATATAAATCATCTCCTGAAAAATGGAGCACGGCTTCTGA
TCCGTACAGTGATTTCGAAAAGGTTACA
GGACGGATTGATAAGAATGTATCACCAGAGGCAAGACACCCCCTTGTGGCAG
CTTATCCGATTGTACATGTAGATATGGA
GAATATTATTCTCTCAAAAAATGAGGATCAATCCACACAGAATACTGATAGT
GAAACGAGAACAATAAGTAAAAATACTT
CTACAAGTAGGACACATACTAGTGAAGTACATGGAAATGCAGAAGTGCATGC
GTCGTTCTTTGATATTGGTGGGAGTGTA
TCTGCAGGATTTAGTAATTCGAATTCAAGTACGGTCGCAATTGATCATTCACT
ATCTCTAGCAGGGGAAAGAACTTGGGC
TGAAACAATGGGTTTAAATACCGCTGATACAGCAAGATTAAATGCCAATATT
AGATATGTAAATACTGGGACGGCTCCAA
TCTACAACGTGTTACCAACGACTTCGTTAGTGTTAGGAAAAAATCAAACACT
CGCGACAATTAAAGCTAAGGAAAACCAA
TTAAGTCAAATACTTGCACCTAATAATTATTATCCTTCTAAAAACTTGGCGCC
AATCGCATTAAATGCACAAGACGATTT
CAGTTCTACTCCAATTACAATGAATTACAATCAATTTCTTGAGTTAGAAAAAA
CGAAACAATTAAGATTAGATACGGATC
AAGTATATGGGAATATAGCAACATACAATTTTGAAAATGGAAGAGTGAGGGT
GGATACAGGCTCGAACTGGAGTGAAGTG
TTACCGCAAATTCAAGAAACAACTGCACGTATCATTTTTAATGGAAAAGATTT
AAATCTGGTAGAAAGGCGGATAGCGGC
GGTTAATCCTAGTGATCCATTAGAAACGACTAAACCGGATATGACATTAAAA
GAAGCCCTTAAAATAGCATTTGGATTTA
ACGAACCGAATGGAAACTTACAATATCAAGGGAAAGACATAACCGAATTTG
ATTTTAATTTCGATCAACAAACATCTCAA
AATATCAAGAATCAGTTAGCGGAATTAAACGCAACTAACATATATACTGTAT
TAGATAAAATCAAATTAAATGCAAAAAT

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FIG. 14 (CONTINUED)

GAATATTTTAATAAGAGATAAACGTTTTCATTATGATAGAAATAACATAGCA
GTTGGGGCGGATGAGTCAGTAGTTAAGG
AGGCTCATAGAGAAGTAATTAATTCGTCAACAGAGGGATTATTGTTAAATAT
TGATAAGGATATAAGAAAAATATTATCA
GGTTATATTGTAGAAATTGAAGATACTGAAGGGCTTAAAGAAGTTATAAATG
ACAGATATGATATGTTGAATATTTCTAG
TTTACGGCAAGATGGAAAAACATTTATAGATTTTAAAAAATATAATGATAAA
TTACCGTTATATATAAGTAATCCCAATT
ATAAGGTAAATGTATATGCTGTTACTAAAGAAAACACTATTATTAATCCTAGT
GAGAATGGGGATACTAGTACCAACGGG
ATCAAGAAAATTTTAATCTTTTCTAAAAAAGGCTATGAGATAGGATAA

FIG. 15

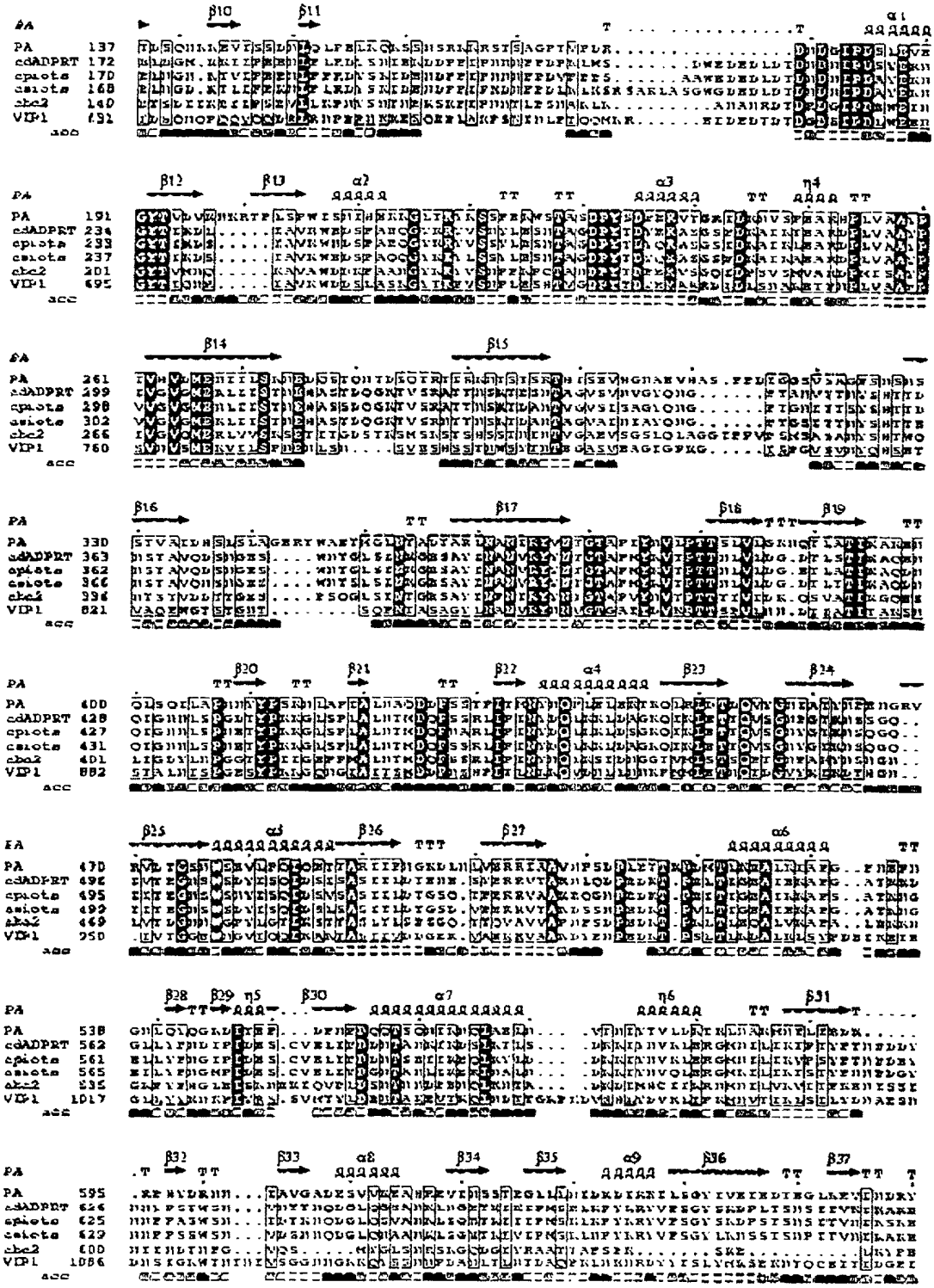

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FIG. 15 (CONTINUED)

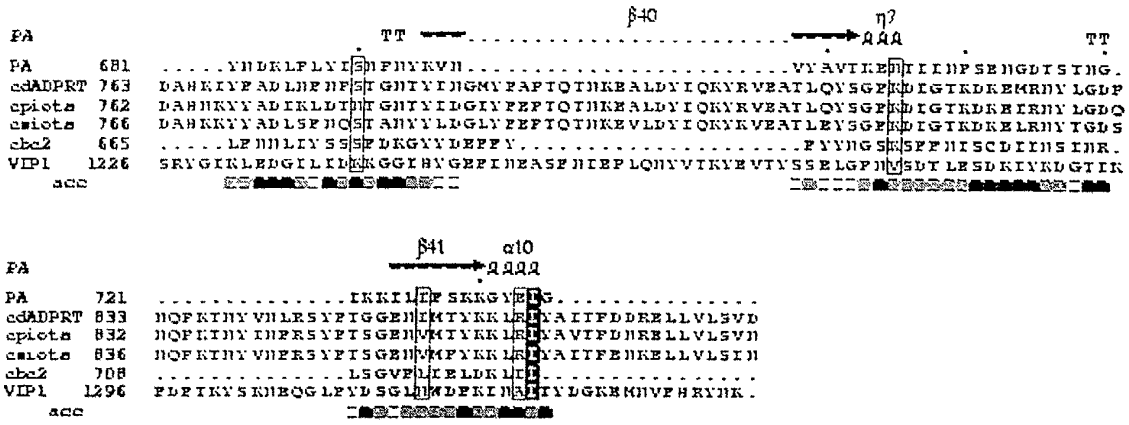


FIG. 16

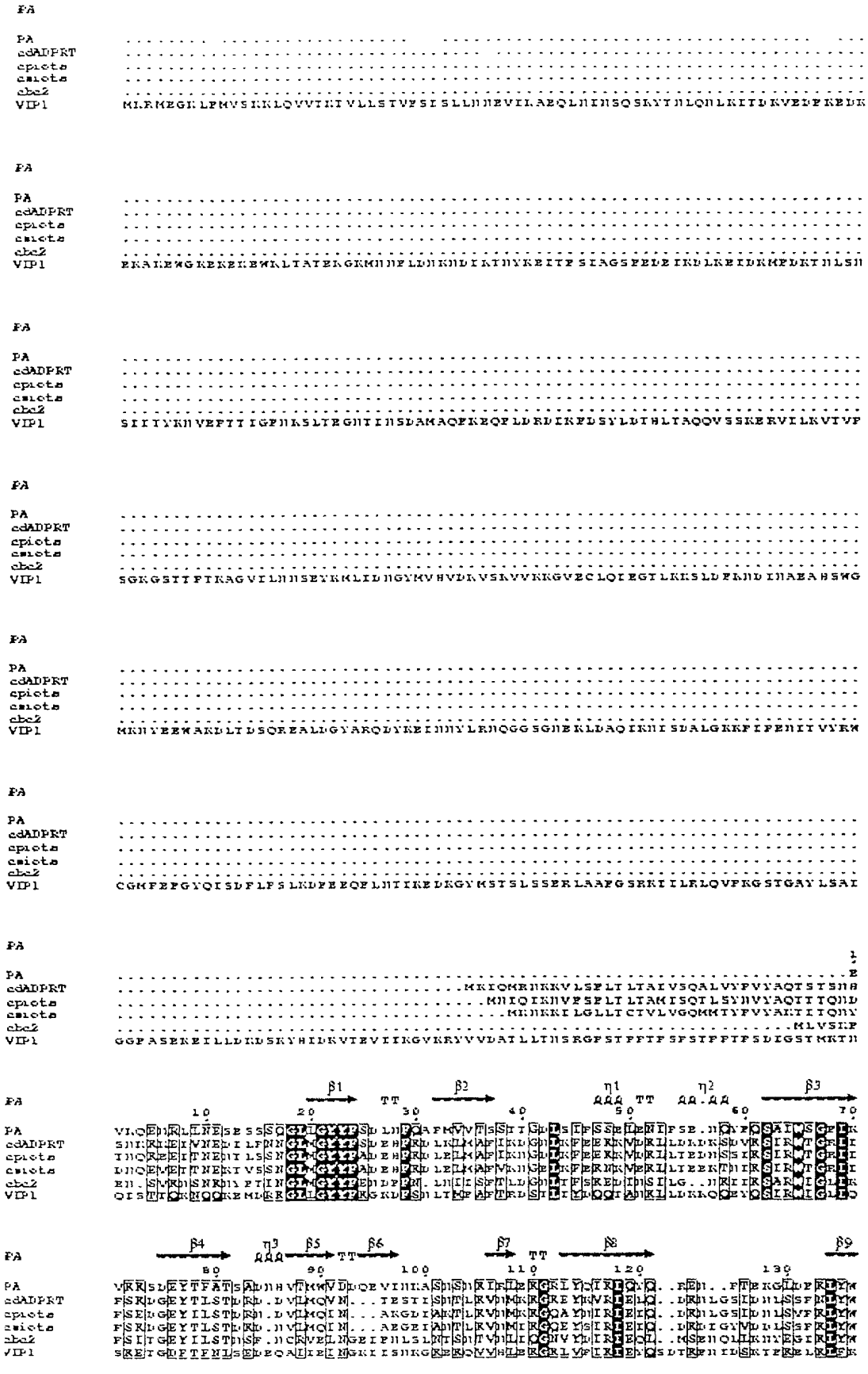
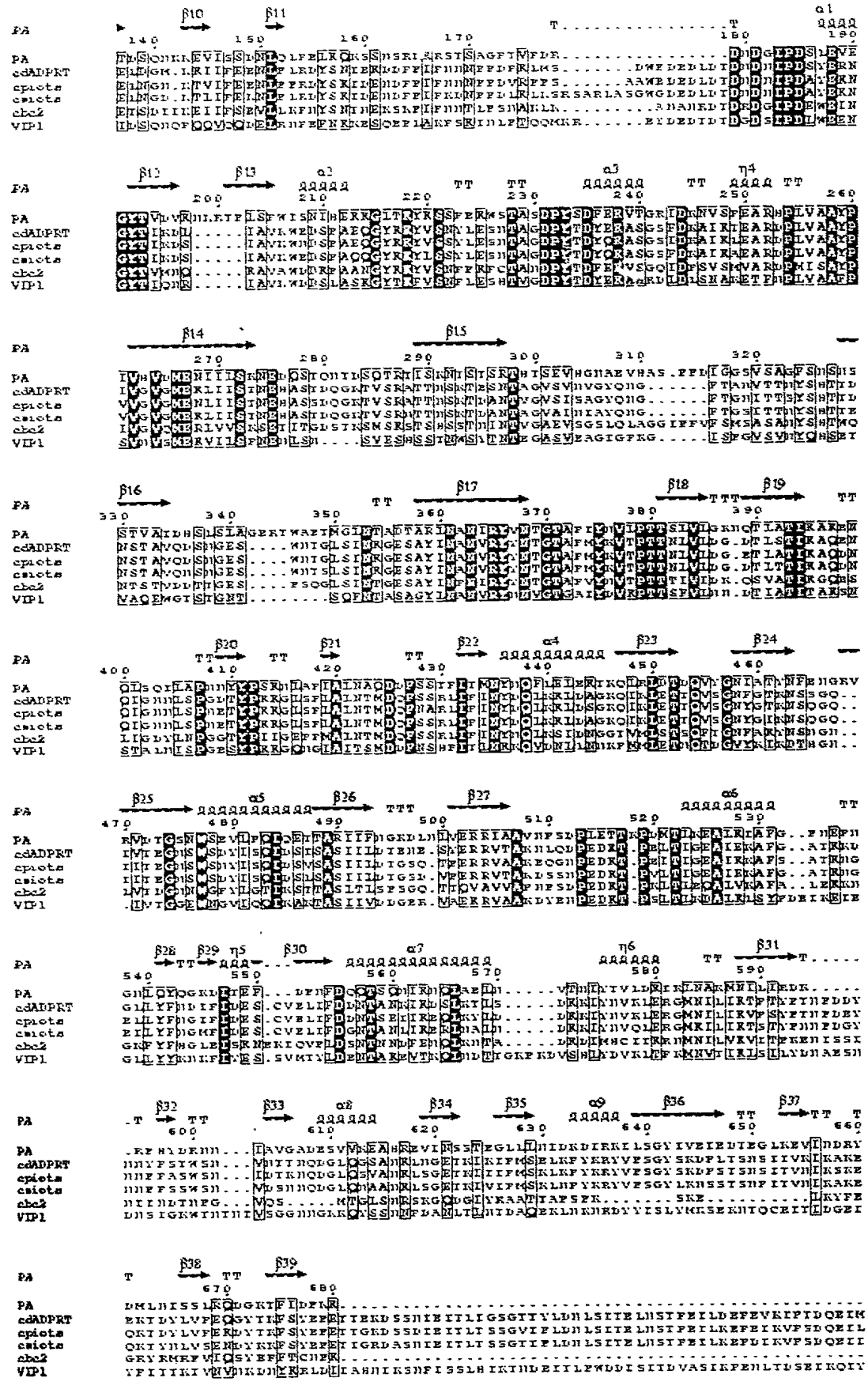

PA
cdADPRT
cpiota
csiota
cbc2
VIP1
β1
β2
η1
η2
β3
β4
η3
β5
β6
β7
β8
β9

FIG. 16 (CONTINUED) 21/22



Case 3:09-cv-00988-JAH-BLM Document 1-3 Filed 05/07/09 PageID.1

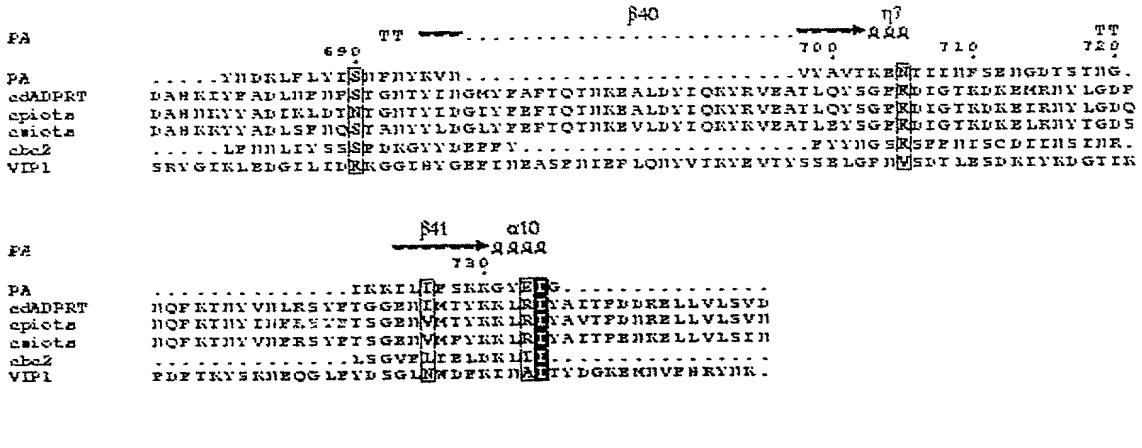



FIG. 16 (CONTINUED)